

Rosalind J Sadleir

List of Publications by Year in descending order

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33
papers

822
citations

687363

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all docs

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docs citations

33
times ranked

957
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in electrical impedance tomography and bioimpedance including applications in COVID-19 diagnosis and treatment. <i>Physiological Measurement</i> , 2022, 43, 020401.	2.1	5
2	Magnetic-resonance-based measurement of electromagnetic fields and conductivity in vivo using single current administration—A machine learning approach. <i>PLoS ONE</i> , 2021, 16, e0254690.	2.5	9
3	Four-channel current switching device to enable multi-electrode magnetic resonance current density imaging. , 2021, 2021, 4068-4071.		0
4	Influence of Transcranial Electrical Stimulation (TES) waveforms on neural excitability of a realistic axon: a simulation study. , 2021, 2021, 6725-6727.		0
5	Development and testing of implanted carbon electrodes for electromagnetic field mapping during neuromodulation. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2103-2116.	3.0	7
6	Low frequency conductivity reconstruction based on a single current injection via MREIT. <i>Physics in Medicine and Biology</i> , 2020, 65, 225016.	3.0	2
7	Functional magnetic resonance electrical impedance tomography (fMREIT) sensitivity analysis using an active bidomain finite element model of neural tissue. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 602-614.	3.0	7
8	Evaluation of magnetohydrodynamic effects in magnetic resonance electrical impedance tomography at ultra-high magnetic fields. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2264-2276.	3.0	4
9	Benchmarking transcranial electrical stimulation finite element models: a comparison study. <i>Journal of Neural Engineering</i> , 2019, 16, 026019.	3.5	13
10	Accelerating acquisition strategies for low-frequency conductivity imaging using MREIT. <i>Physics in Medicine and Biology</i> , 2018, 63, 045011.	3.0	7
11	Low-Frequency Conductivity Tensor Imaging of the Human Head <i>&lt;italic>In Vivo</italic></i> ; Using DT-MREIT: First Study. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 966-976.	8.9	43
12	The effect of potassium chloride on <i>Aplysia Californica</i> abdominal ganglion activity. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 035033.	1.2	1
13	Multishot echo-planar MREIT for fast imaging of conductivity, current density, and electric field distributions. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 71-82.	3.0	13
14	Methods to Compare Predicted and Observed Phosphene Experience in tACS Subjects. <i>Neural Plasticity</i> , 2018, 2018, 1-10.	2.2	11
15	Analytic modeling of conductively anisotropic neural tissue. <i>Journal of Applied Physics</i> , 2018, 124, 064701.	2.5	2
16	Imaging of current flow in the human head during transcranial electrical therapy. <i>Brain Stimulation</i> , 2017, 10, 764-772.	1.6	42
17	Direct detection of neural activity in vitro using magnetic resonance electrical impedance tomography (MREIT). <i>NeuroImage</i> , 2017, 161, 104-119.	4.2	12
18	Projected current density comparison in tDCS block and smooth FE modeling. , 2016, 2016, 4079-4082.		1

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19	In vivo quantification of intraventricular hemorrhage in a neonatal piglet model using an EEG-layout based electrical impedance tomography array. <i>Physiological Measurement</i> , 2016, 37, 751-764.	2.1	16
20	Changing head model extent affects finite element predictions of transcranial direct current stimulation distributions. <i>Journal of Neural Engineering</i> , 2016, 13, 066006.	3.5	22
21	Analytic Modeling of Neural Tissue: I. A Spherical Bidomain. <i>Journal of Mathematical Neuroscience</i> , 2016, 6, 9.	2.4	3
22	Analysis of bipolar external excitation of spherical tissue by spatially opposed current source and sink points. , 2015, 2015, 2299-302.		2
23	Biocompatible, High Precision, Wideband, Improved Howland Current Source With Lead-Lag Compensation. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2013, 7, 63-70.	4.0	95
24	Simulations and phantom evaluations of magnetic resonance electrical impedance tomography (MREIT) for breast cancer detection. <i>Journal of Magnetic Resonance</i> , 2013, 230, 40-49.	2.1	15
25	Flexible electrode belt for EIT using nanofiber web dry electrodes. <i>Physiological Measurement</i> , 2012, 33, 1603-1616.	2.1	18
26	Target Optimization in Transcranial Direct Current Stimulation. <i>Frontiers in Psychiatry</i> , 2012, 3, 90.	2.6	80
27	The conductivity of neonatal piglet skulls. <i>Physiological Measurement</i> , 2011, 32, 1275-1283.	2.1	13
28	Transcranial direct current stimulation (tDCS) in a realistic head model. <i>NeuroImage</i> , 2010, 51, 1310-1318.	4.2	224
29	A Controllably Anisotropic Conductivity or Diffusion Phantom Constructed from Isotropic Layers. <i>Annals of Biomedical Engineering</i> , 2009, 37, 2522-2531.	2.5	18
30	Design of anisotropic phantoms for use in electrical conductivity imaging and modeling. , 2007, , .		0
31	High field MREIT: setup and tissue phantom imaging at 11 T. <i>Physiological Measurement</i> , 2006, 27, S261-S270.	2.1	23
32	Noise analysis in magnetic resonance electrical impedance tomography at 3 and 11 T field strengths. <i>Physiological Measurement</i> , 2005, 26, 875-884.	2.1	92
33	Quantification of blood volume by electrical impedance tomography using a tissue-equivalent phantom. <i>Physiological Measurement</i> , 1998, 19, 501-516.	2.1	22